



USER MANUAL

AX1020

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10.2" DVD Flip Down TFT Swivel Monitor

Congratulations on your purchase of a OPTI MOUNT Video Monitor.

It has been designed, engineered and manufactured to bring you the highest level of performance and quality, and will afford you years of viewing pleasure.

Thank you for making OPTI MOUNT your choice in car video entertainment!

USER'S MANUAL

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Standard Precautions

Please read this manual carefully prior to the installation of your OPTI MOUNT mobile entertainment system a M.E.C.P. CERTIFIED INSTALLER IS RECOMMENDED.

The location of this unit should not be visible to the driver in any way. This is for rear entertainment only. OPTI MOUNT assumes no liability for failure to follow the proper installation recommendations.

Please keep this manual in a safe place for future reference.

Safety Precaution

- In most countries it is against the law to watch TV [video] while driving it is recommended to check with your local police for the law.
- Safe driving should always be your priority.
- Do not attempt to modify or repair this unit it will void your OPTI MOUNT Warranty.
- If any repairs are needed, please contact OPTI MOUNT for a repair station near you.
- It is recommended when D.I.Y installation is done, disconnect the negative battery terminal.
- After installation is complete, check all connections prior to final assembly.
- No modifications to the unit or mounting hardware are permitted.

Installation

- If this installation requires modification to the vehicle, go to a M.E.C.P. CERTIFIED INSTALLER.
- First choose a location that will not obstruct the drivers view.
- The power source is 12V negative ground only.
- Be sure not to install where the unit can get wet or high heat always after entering a hot or extremely cold vehicle.
- Wait for inside temperature to be comfortable before turning on the unit.
- Carefully check the clearance in headliner to make sure there are no obstructions.
- Route cables carefully, make sure they are free from sharp metal.
- When mounting unit always use same tightness on all mounting hardware not to deform housing.

Operating Precautions

Turn the unit off when it is not in use.

Avoid dropping any metal objects or inflammable items into the monitor ventilation slots.

Do not place objects on or suspend objects from power cord, as this may damage the cord.

What is included?

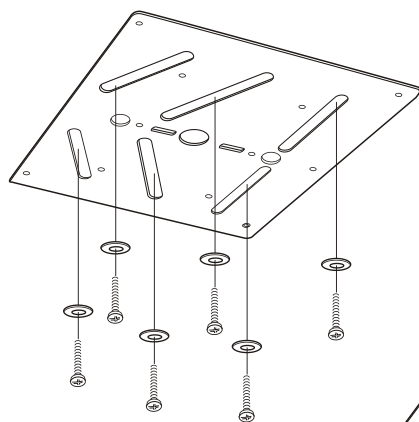
When first unpacking your new flipdown monitor, please check first that the package contains all of the items below. If something is missing, contact the store where you purchased the player.

- LCD Monitor Housing
- Power Cable~Audio/Video Interconnect Cable
- Wireless Remote Control with Battery
- Metal Mounting Plate
- Operating Instructions Booklet
- Screw Pack for Mounting Main Unit
- Securing Main Unit to Beauty Ring

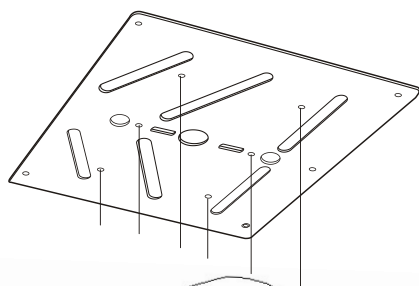
Monitor installation

CAUTION: Make sure the screws are **NOT** long enough to go through the roof!

If you have any doubts about this type of installation, please consult your local mobile electronics retailer. Making holes in the roof of your vehicle will cause damage which is expensive to repair.



Attach the monitor mounting plate by screwing through the headliner and into the existing roof supports or the wood bracket you made (see TIP below).

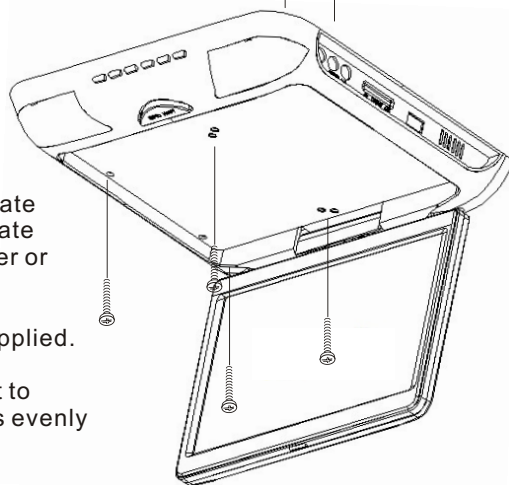


NOTE
Hardware shown in this illustration is not provided due to varying installation requirements.

Cut hole in headliner for metal plate to fit a 1 1/2" overlap is needed for plate carefully secure plate to headliner or support beam [not roof].

Route cables using hardware supplied.

Align mounting holes secure unit to mounting plate tighten all screws evenly not to deform housing.



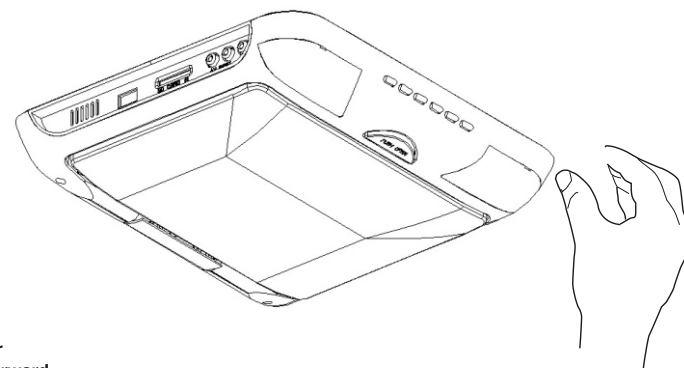
INSTALLATION TIP

Make a MOUNTING BRACKET out of wood. This bracket mounts under the headliner, and provides a mounting surface to which the housing of the flip-down monitor can be attached.

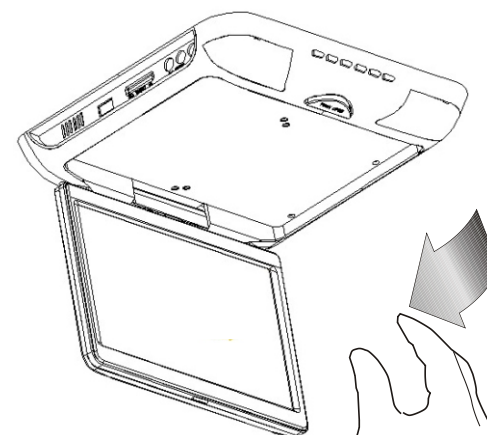
Releasing and lowering the monitor

To release monitor press release button carefully lower screen to your best viewing angle. Once the monitor is at best viewing angle the screen can swivel 10 degree left and right.

When unit is not in use we recommend that you close the monitor.



Push the monitor release button forward



Pull the monitor screen down to the desired angle

To avoid accidental damage, we suggest you always close the monitor assembly when it is not in use. To do so, rotate the monitor back to a 0° left-to-right position, and push it up into the monitor base until you hear a "click." Test that it is secured by gently pulling down on monitor frame.

Powering up the monitor

To turn the monitor on, press and hold the POWER button for two seconds. When the power is ON, if an input signal is present, the picture will be displayed on the screen.

To adjust the monitor image, press SEL to access the various adjustment controls such as BRIGHTNESS and CONTRAST. Use the Down/Up buttons to adjust each parameter until you are satisfied with the picture quality.

Turning on the dome lights

This unit features a three-position switch for the dome lights. The switch is located near the monitor release button. The three positions are ON, ON when the car dome lights are on, and OFF.



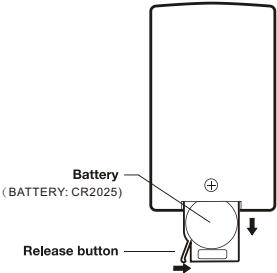
Monitor Controls and Features - DVD SYSTEM



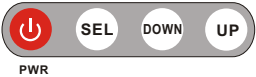
- ① **DVD POWER ON/OFF**
This button turns the DVD system on and off.
- ② **AV MODE**
Press this button to select the display source.
- DVD → AV1 → AV2
HV-FDVP102
- DVD → AV1
HV-FDVP7
- ③ **DVD SKIP BACKWARD**
Press this button to skip backward (chapters).
- ④ **DVD SKIP FORWARD**
Press this button to skip forward (chapters).
- ⑤ **DVD PLAY/PAUSE**
A) Press once: to start playing.
B) Press twice: to pause playing.
- ⑥ **DVD EJECT**
Press this button to stop playing and eject the disc.

- ⑦ **MONITOR OPEN SWITCH**
- ⑧ **CONTROL SWITCH (DOOR/OFF/ON)**
- ⑨ **DVD INPUT**
- ⑩ **USB INPUT**
- ⑪ **SD CARD INPUT**
- ⑫ **DOME LIGHT LAMP (2EA)**
- ⑬ **VIDEO INPUT 2 (Yellow, RCA)**
- ⑭ **AUDIO “L” INPUT 2 (White, RCA)**
- ⑮ **AUDIO “R” INPUT 2 (Red, RCA)**

Remote Control - DVD SYSTEM



Remote Control - MONITOR



- MONITOR POWER**
Press this button to power on or off the monitor.
- MONITOR SELECT**
This button enables the on-screen display menu system. Once enabled, this button is used as an ENTER button.
- DOWN BUTTONS**
This button is used to decrease parameters in the on-display screen display menu system.
- UP BUTTONS**
This button is used to increase parameters in the on-display screen display menu system.
- FM**
Press this button to turn on the FM transmitter feature to have audio through for speakers. Press again to turn off. With “FM ON”, using DOWN and UP button to select the frequency. There are 14 channel available - 87.7MHz, 87.9MHz, 88.1MHz, 88.3MHz, 88.5MHz, 88.7MHz, 88.9MHz, 106.7MHz, 106.9MHz, 107.1MHz, 107.3MHz, 107.5MHz, 107.7MHz, 107.9MHz.

Remote Control - DVD SYSTEM



EJECT
Press this button to stop playing and eject the disc.



AV MODE
Press this button to select the display source.



VOLUME INCREASE
Press this button to increase volume.



VOLUME DECREASE
Press this button to decrease volume.



SKIP BACKWARD
Press this button to skip backward (chapters).



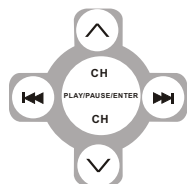
SKIP FORWARD
Press this button to skip forward (chapters).



PLAY/PAUSE
A) Press once: to start playing.
B) Press twice: to pause playing.



STOP
A) Press once: STOP memorizes the interrupt position (may resume with PLAY/PAUSE button)
B) Press twice: to stop completely. (Will NOT resume with PLAY/PAUSE button)

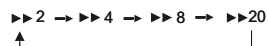


CURSOR buttons

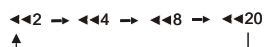
In the disc menu or setup menu
* Press cursor buttons to move between the function items.
* Press ENTER button to confirm a selection.



SEARCH FORWARD
This button search forward and repeat pressing the button to changes search speed.



SEARCH BACKWARD
This button search forward and repeat pressing the button to changes search speed.



NUMERIC KEY PAD

Press the numeric key pad to input data for disc or setup menu.

Remote Control- DVD SYSTEM



FUNCTION
Press this button to have the DVD feature function as below, and press again to change into numeric key pad. This key is switch for DVD feature function and numeric key pad.



SUBTITLE
During in playback, repeat pressing this button to select the desired subtitle to display.



AUDIO
During in playback, repeat pressing this button to select the desired audio language to display.



ANGLE
Press this button to select the desired viewing angle.
(If a DVD disc contains multi-angle feature, viewing angles may be selected.)



PROGRAM
Program to play a DVD,VCD, CD, WMA and MP3 disc in a desired sequence to play.
Pressing this button to have the program menu to appear. Using numeric keypad to input the title number and the chapter number to be a desired sequence to play.



A - B
Set a display period.
A) Press once: to set a display period starts.
B) Press twice: to set a display period end.
C) Press third: to cancel the setting of display period.



REPEAT
Press this button multiple times to reach desired repeat mode (see below).

* DVD disc	* CD disc	* MP3 disc
Repeat Chapter	Repeat Single	Repeat One
Repeat the Chapter	Repeat the existing track	Repeat the existing track
Repeat Title	Repeat All	Repeat All
Repeat the Title	Repeat all tracks	Repeat all tracks
Off	Off	Off
Repeat function off	Repeat function off	Repeat function off

NOTE: repeat functionality depends on different disc's production format. Some DVD discs do not allow repeat function.



SETUP
Press this button to setup the status of DVD. See "OSD MENU-DVD" in this manual for details.



MUTE
Press this button to mute (turn off) the audio output.
Press this button again to resume normal audio output.



GOTO
Set a desired Title, Chapter or Time. (This function does NOT apply to Mp3)

* DVD disc	* CD disc
Press GOTO button to select GOTO mode.	Press GOTO button to select GOTO mode.
Press DOWN button highlight desired item.	Press GOTO button again to Disc Search model.
TITLE — Input title number	TIME --:--:-- Input time hh:mm:ss
CHAPTER — Input chapter number	(Hour: Minute: Second)
TIME --:--:-- Input time hh:mm:ss	TRACK — Input track number XXX
(Hour : Minute : Second)	(Track Number)
Press ENTER button	Press ENTER button

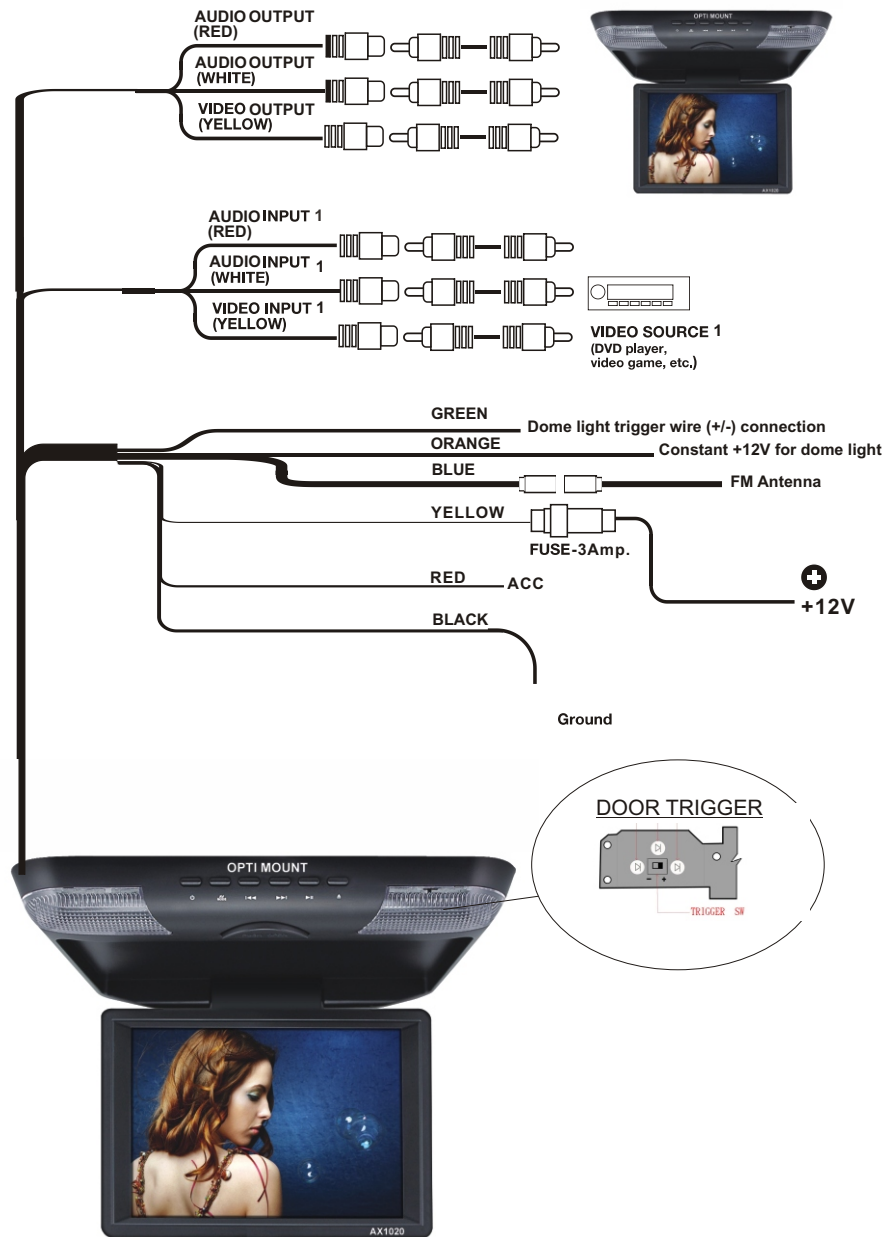


RETURN
Press this button to return to the DVD disc Title.

System wiring - DVD SYSTEM

On a towel or soft cloth, gently place the monitor assembly “face down” on a stable work surface.

Using the wires provided, complete the audio, video and power connections in your vehicle as shown in the diagram below.



Note:

1. Please remove the right-side of AX1020 dome light cover to define the door trigger. If it's positive trigger (+12 Volt), please put the switcher to the left - hand side. If it's ground trigger, please put the switcher to the right - hand side. (Default in ground trigger, switcher to the right - hand side).
2. Because of frequency interference, using multi monitors in your vehicle with built in IR can create distortion to the audio of headphones.

NOTE:
This model has a selector switch for dome light trigger connection (+12V or ground connection). This switch allows you to select between +12V and negative ground connection for your dome light trigger function.

The selector switch is located by the right side dome light (please remove the dome light lens cover to access the switch). When the selector switch is set on position A the dome light trigger wire works with negative ground. When the switch is set on position B the dome light trigger wire works with positive +12V.

The diagram shows a selector switch with two positions, A and B. Position A is labeled with a minus sign (-) and position B is labeled with a plus sign (+).

On-screen (OSD) menu system - DVD SYSTEM

This monitor incorporates an on-screen menu display systems which permits you to setup the DVD for a wide variety of installations and applications.

Enter the menu system by pressing the SETUP button on the front of the monitor or the remote control. Pressing the SETUP button steps you through the six main screens of the menu system. These are, in order: System Setup, Language Setup, Audio Setup, Video Setup, Speaker Setup, Digital Setup.

The basic navigation method for this menu system is to:

- 1 - enter a menu by pressing the SETUP button
- 2 - use the < and > buttons to scroll to the parameter you wish to change
- 3 - press the ∨ and ∧ buttons to enter to sub-menus
- 4 - press ENTER button to enter the selection
- 5 - use the ∨ and ∧ buttons to adjust the parameter you wish to change
- 6 - press the ENTER button to confirm the selection

Sub-menus in the OSD system

Each of the three main menu areas contain submenus permitting you to adjust many aspects of your monitor's behavior.

*In the **SYSTEM SETUP** menu, you can adjust the following:*

SOURCE • TV SYSTEM • VIDEO • PASSWORD • RATING • DEFAULT

*In the **LANGUAGE SETUP** menu, you can adjust the following:*

OSD LANGUAGE • AUDIO LANG • SUBTITLE LANG • MENU LANG

*In the **AUDIO SETUP** menu, you can adjust the following:*

AUDIO OUT • KEY

*In the **VIDEO SETUP** menu, you can adjust the following:*

BRIGHTNESS • CONTRAST • HUE • SATURATION • SHARPNESS

On-screen (OSD) menu system - SCREEN MONITOR

1. Press the "POWER" key on monitor or remote controller to turn on the monitor.
2. Press the "SELECT" key on monitor or remote unit, the OSD (ON SCREEN DISPLAY) menu will be shown on the display as below.

BRIGHTNESS
CONTRAST
COLOR
TINT
MIRROR
RESET
EXIT
SCALING

3. Press "SELECT" key on monitor or remote unit to select the adjustment item. Then press "UP" or "DOWN" key to adjust the new setting value. Each adjustment item is shown as below:

*BRIGHTNESS Adjustment

Pressing UP key, the screen color gets more bright.

Pressing DOWN key, the screen color gets less bright.

*CONTRAST Adjustment

Pressing UP key, the screen gets high intensity.

Pressing DOWN key, the screen gets lower intensity.

*COLOR Adjustment

Pressing UP key, the screen color gets richer.

Pressing DOWN key, the screen color gets lighter.

*TINT Adjustment

Pressing UP key, the screen gets greenish.

Pressing DOWN key, the screen gets reddish.

*MIRROR Adjustment

Reverses the displayed image (useful with rear camera systems)

*RESET Adjustment

Returns all setting to factor values.

*EXIT Adjustment

Allows you to exit the OSD systems.

*SCALING Adjustment

Press "UP" or "DOWN" key to select the picture image to 16:9 or 4:3 display.

Troubleshooting

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous page. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOM	CAUSE	REMEDY
No picture or sound.	Power cord is not properly connected.	<i>Check that power connections are properly made and all fuses are in functioning condition.</i>
	A/V input cables not properly connected.	<i>Check all cables.</i>
	A/V input source is not operating properly.	<i>Replace or repair A/V source (DVD player, video game, etc.)</i>
No picture.	A/V signal not present.	<i>Check all cables. If necessary, repair or replace A/V source.</i>
	Contrast and/or brightness is set improperly.	<i>Adjust contrast and brightness levels to see if picture appears.</i>
	TV reception is poor (applies to system with TV tuner only)	<i>Check and adjust antenna system. Move to another area with better reception, if possible.</i>
Remote control does not function properly.	Battery is dead.	<i>Replace battery.</i>
	Remote is not being used in direct line-of-sight with the player or remote IR sensor. Transmission is best within 6 feet/35° angle of IR sensor on the monitor.	<i>Be sure when being used, the remote is being pointed directly toward the player or remote IR sensor (if installed).</i>

Specifications

MODEL	AX1020 <small>10.2" DVD Flip Down TFT Swivel Monitor</small>
A/V SYSTEM	
Screen size	10.2"
Video Compatibility	NTSC/PAL
LCD panel type	Active Matrix TFT
Resolution, pixels	800 x 600
Brightness	350 NITS
GENERAL	
Operating voltage	12V DC

All specifications subject to change without notice.

Features

High Resolution Screen TFT-LCD MONITOR
On Screen Display
Front Panel Control
Full Function Remote Control
NTSC/PAL Signal Auto Detection
Swivel Screen
Built-in 3 Position Dome Light
Built-in Infrared Audio Transmitter for Wireless Earphones
Built-in Slot-In HALF DIN DVD
Built-in SD Card Reader
Built-in 1.1 USB Host
Built-in FM Function
External A/V input available
Playback System: DVD, VCD, SVCD, CD-DA, CD-R/RW, MP3, MPEG4
Speed Control for Fast Forward/ Reverse: x2, x4, x8, x20
Zoom Screen: 2, 3, 4, 1/2, 1/3, 1/4, Off
2 A/V In, 1A/V Out (for HV-FDVP102)
1 A/V In, 1A/V Out (for HV-FDVP7)
Supporting Multi-Language

